On page 4, line 31, replace "copoloymer" with -- copolymer --.
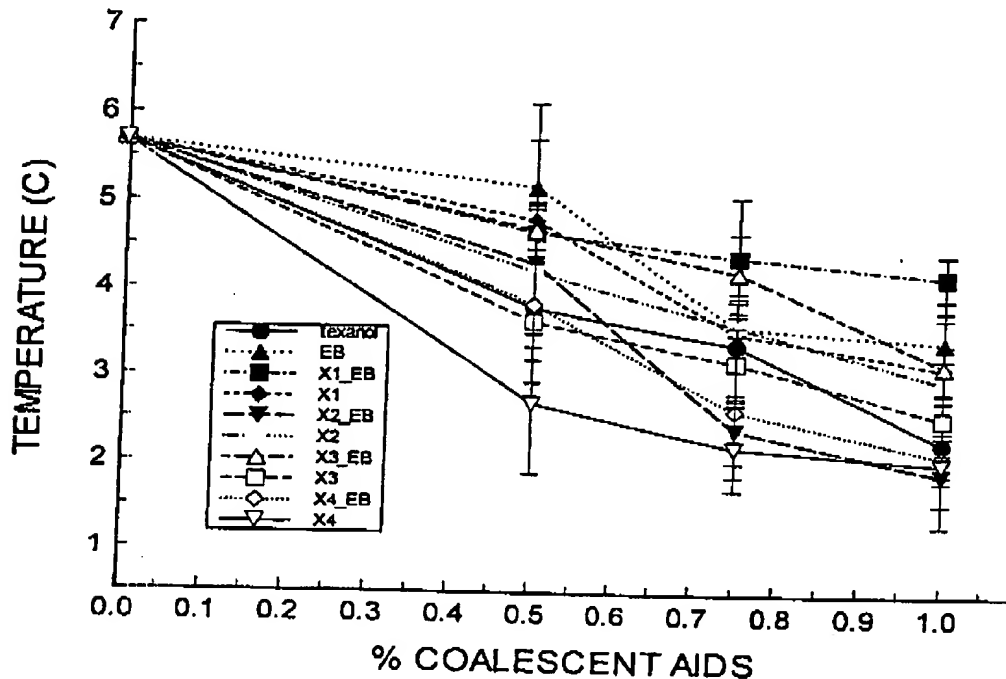
On page 7, line 3, replace "polyunsatured" with -- polyunsaturated --.

On page 8, last line, replace "elestearic" with -- eleostearic --.

On page 11, line 7, replace "comounds" with -- compounds --, and on line 19, replace "additivies" with -- additives --.

On page 18, lines 6-13, please replace

" **MFFT (C) PLOT FOR FLEXBOND 325 AS A FUNCTION OF % COALESCENT AIDS**

X1= Ethylene glycol soy oil ester
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
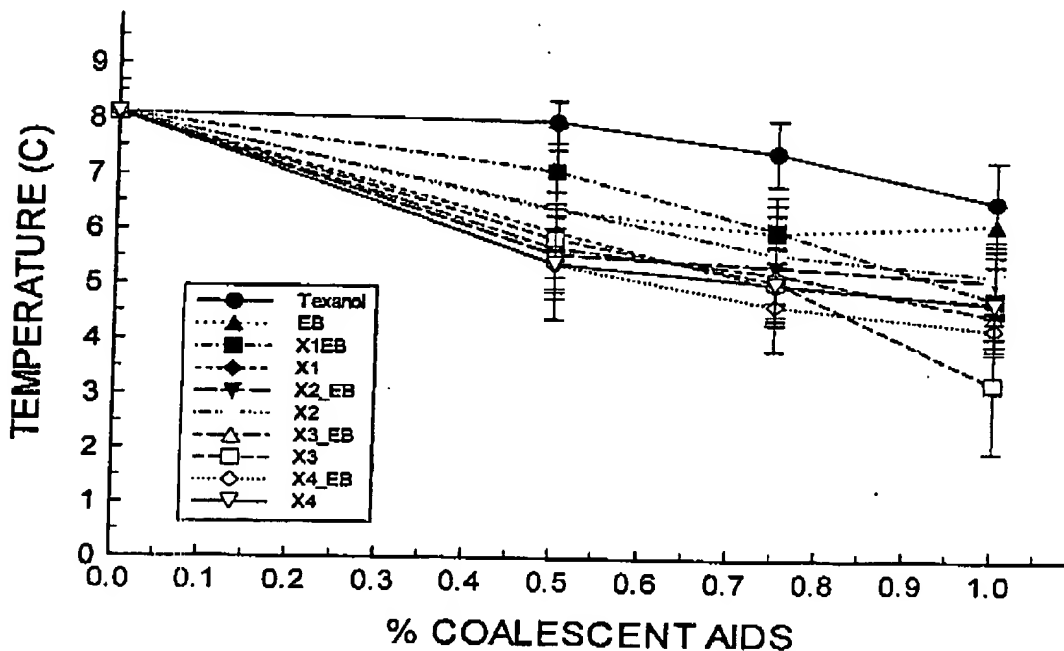X_EB= derivatives and EB mixture 50:50

2

All"

with

--As illustrated by FIG. 1, all--.

On page 19, lines 1-9, please replace

" MFFT (C) PLOT FOR UCAR379 AS A FUNCTION OF % COALESCENT AIDS

X1= Ethylene glycol soy oil ester.
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
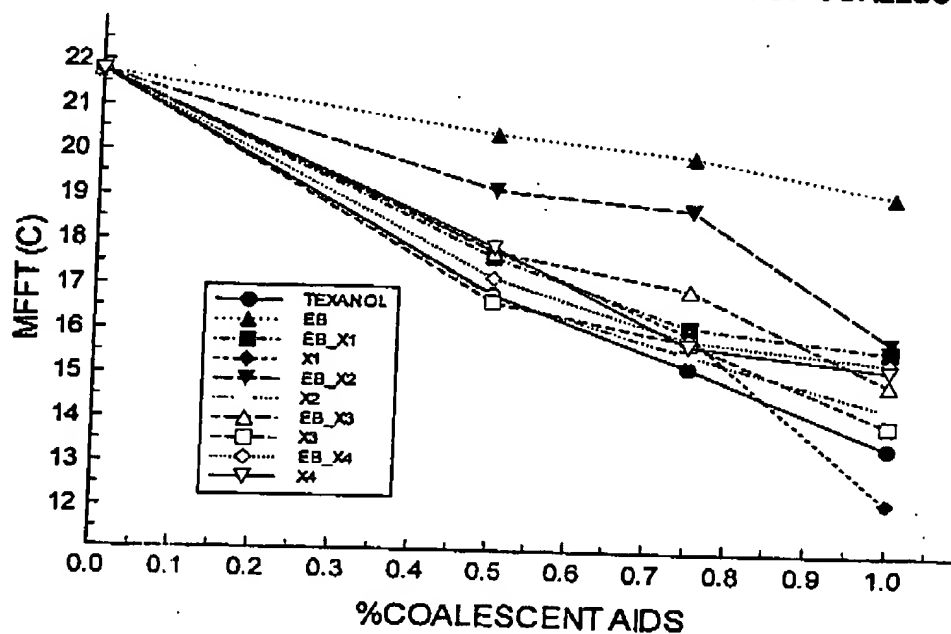X_EB= derivatives and EB mixture 50:50

All"

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with

   --As shown in FIG. 2, all--.

On page 21, lines 1-8, please replace

" **MFFT(C) PLOT FOR ACRONAL A846 AS A FUNCTION OF COALESCENT AIDS**

X1= Ethylene glycol soy oil ester
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
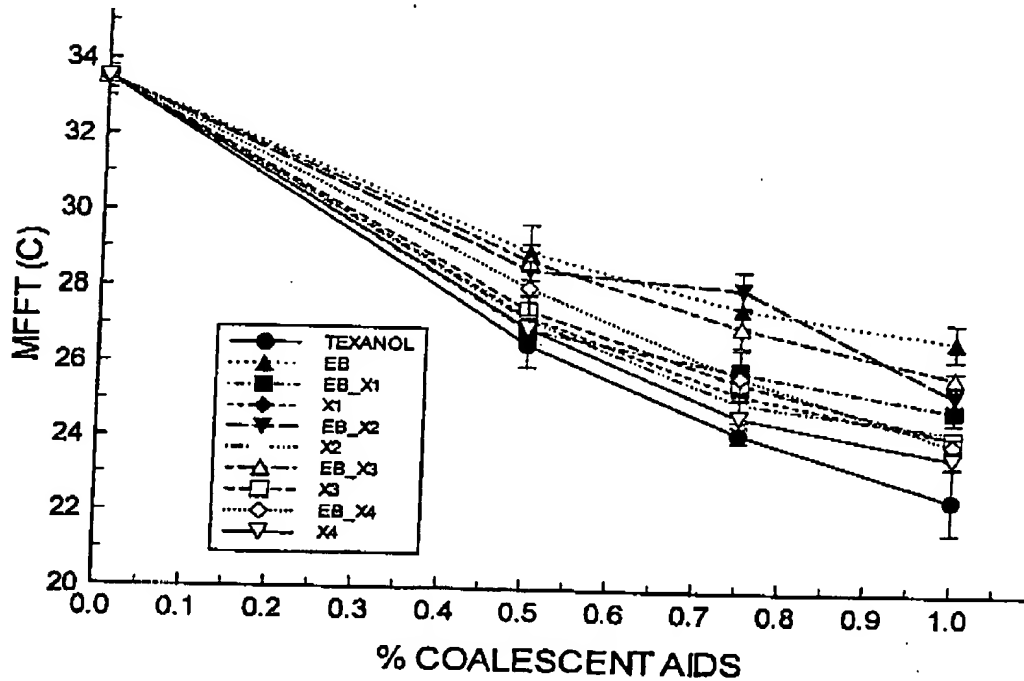X_EB=derivatives and EB mixture 50:50

   All"

with

   --As illustrated by FIG. 3, all-.

4

On page 23, lines 1-9, please replace

" **MFFT (C) PLOT FOR UCAR 430 AS A FUNCTION OF COALESCENT AIDS**

X1= Ethylene glycol soy oil ester
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
X_EB=derivatives and EB mixture 50:50

All"

with

    --As shown in FIG. 4, all--.

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On page 24, line 6, page 25, line 19, page 27, line 20, page 29, last line, page 38, last line, replace "Table" with -- Tables --.

On page 24, lines 7 and 19, page 25, lines 1 and 14, page 28, lines 1 and 14, page 29, lines 1 and 14, page 37, lines 1 and 14, page 39, lines 1 and 14, and page 64, line 21, replace "TEXANOL" with -- TEXANOL® --.

On page 27, line 14, page 31, line 14, replace "EG-DERI (X1)" with -- EG-DERIV (X1)--.

On page 32, lines 4, 9, 13 and 18, page 33, lines 27-30, page 34, line 8, 11, 15, 18, page 35, lines 3, 5, 8, 10, 19, 23, 27 and 31, page 41, lines 5 and 13, page 42, lines 3, 6, 15 and 18, and page 43, lines 3, 6, 16 and 19, replace "texanol" with -- TEXANOL® --.

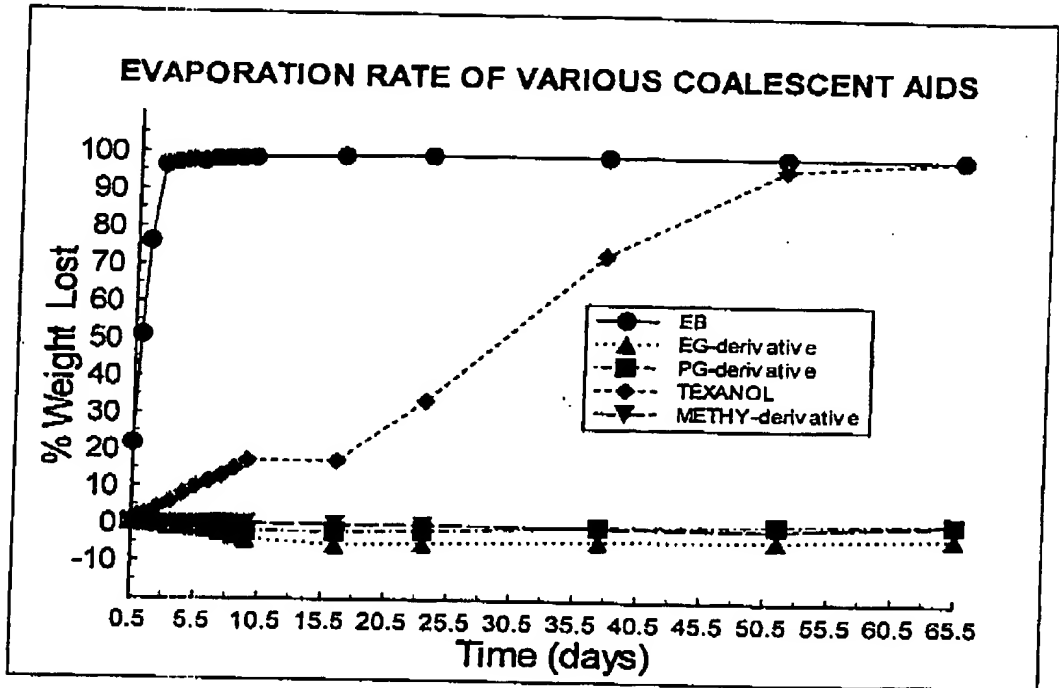On page 32, line 2, after "shown in" insert -- the --.

On page 37, last line, insert -- The formulations with ethylene glycol soybean oil esters are given in the Table below. --.

On page 38, last line, after "esters" insert -- or TEXANOL® --.
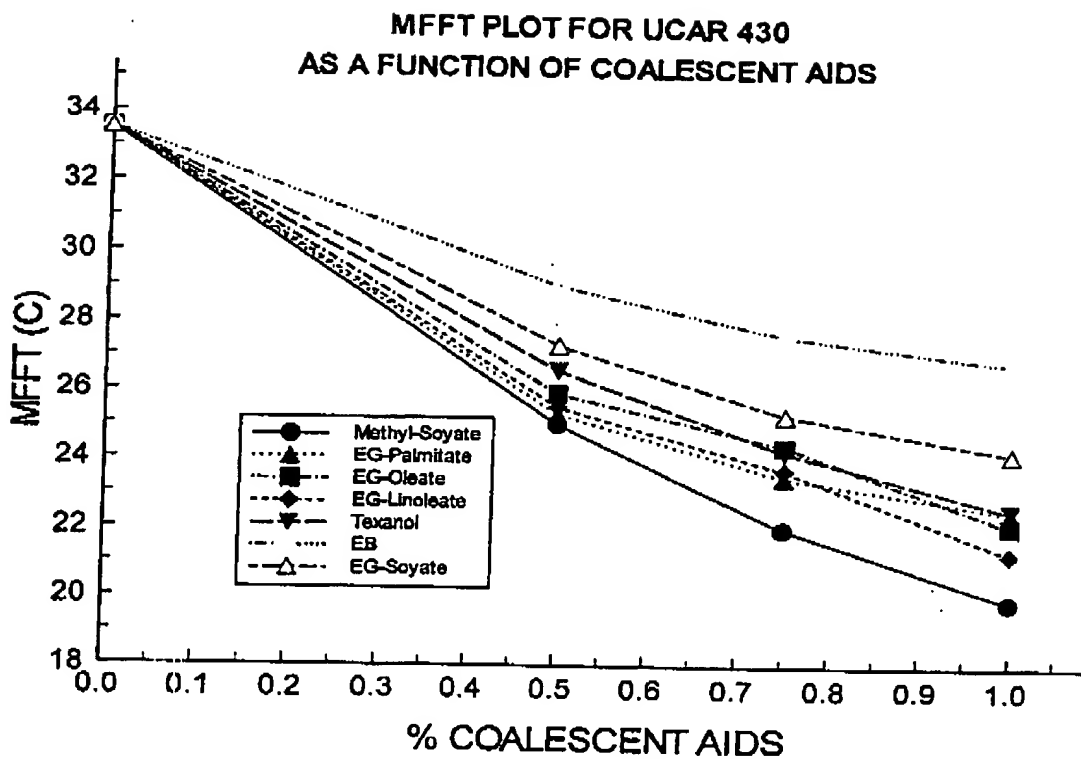
On page 44, lines 6-9, please replace:

6

"below.

EVAPORATION RATE OF VARIOUS COALESCENT AIDS

with

--in FIG. 5.--.

On page 45, line 9 - page 46, line 9, please replace:

7

"as follows.

UCAR 430
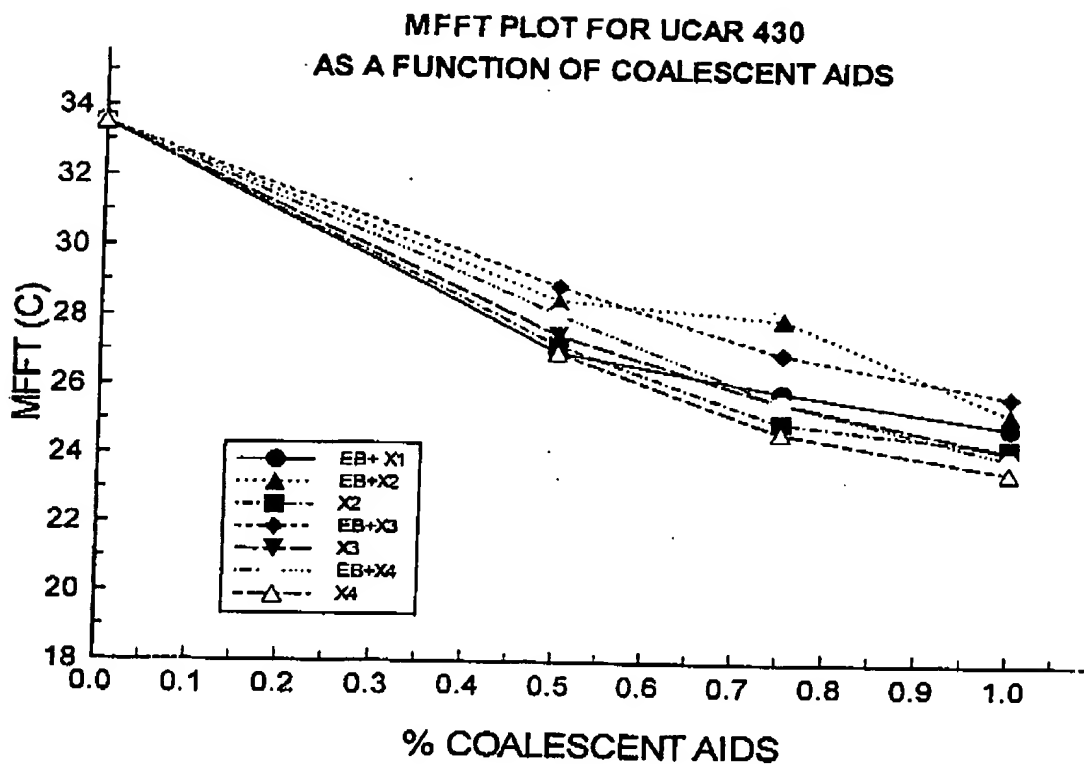
MFFT PLOT FOR UCAR 430
AS A FUNCTION OF COALESCENT AIDS

MFFT PLOT FOR UCAR 430
AS A FUNCTION OF COALESCENT AIDS

X1= Ethylene glycol soy oil ester
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
EB+X= derivatives and EB mixture 50:50

From the MFFT results of high Tg resin (UCAR 430,
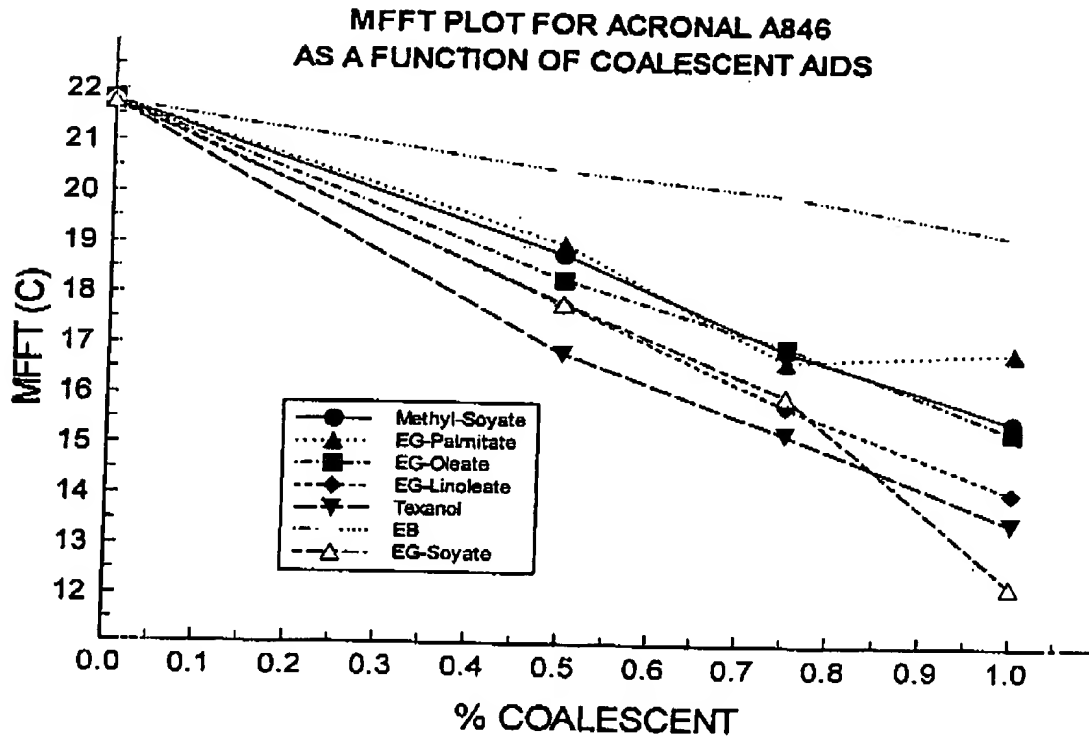PS/PMMA) formulation"

with

--in FIGs. 6-9.

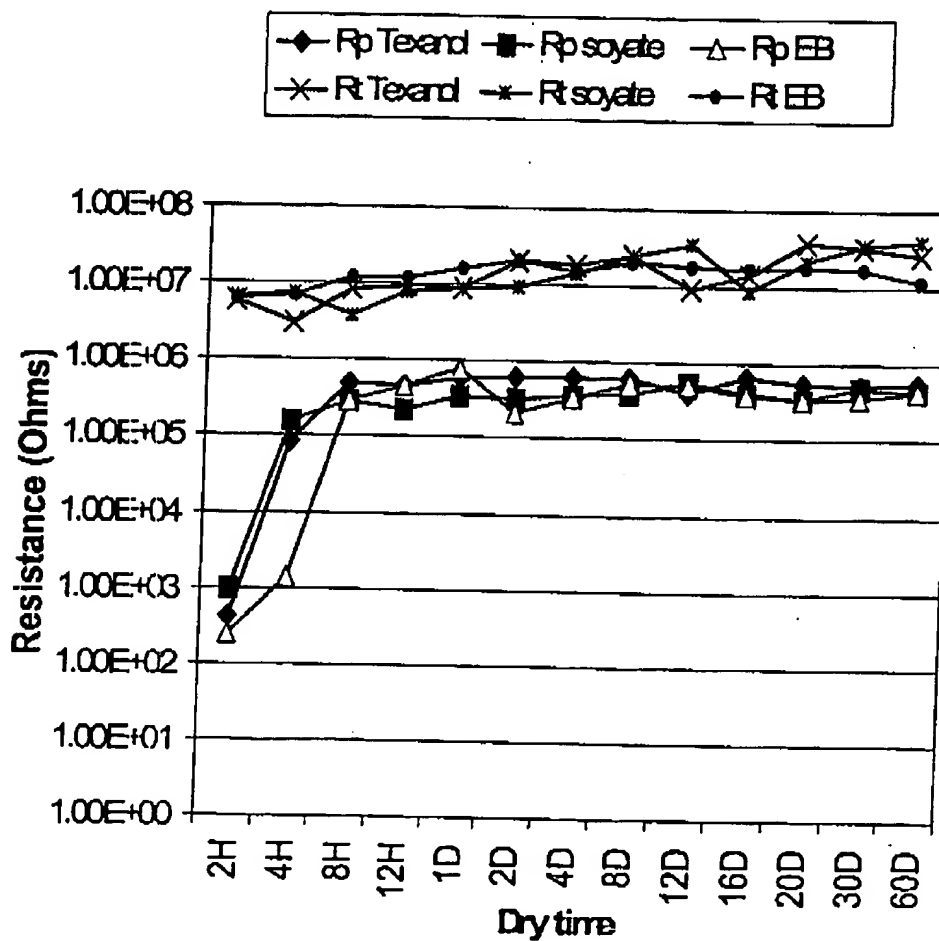
UCAR 430

The results from the MFFT measurements of high Tg resin
(UCAR 430, PS/PMMA) formulation are shown in FIGs. 6 and 7.
As FIGs. 6 and 7 illustrate--.

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On page 46, line 14, replace "All" with --As shown in
FIG. 7, all--.

On page 47, line 5 - page 48, line 9, please replace
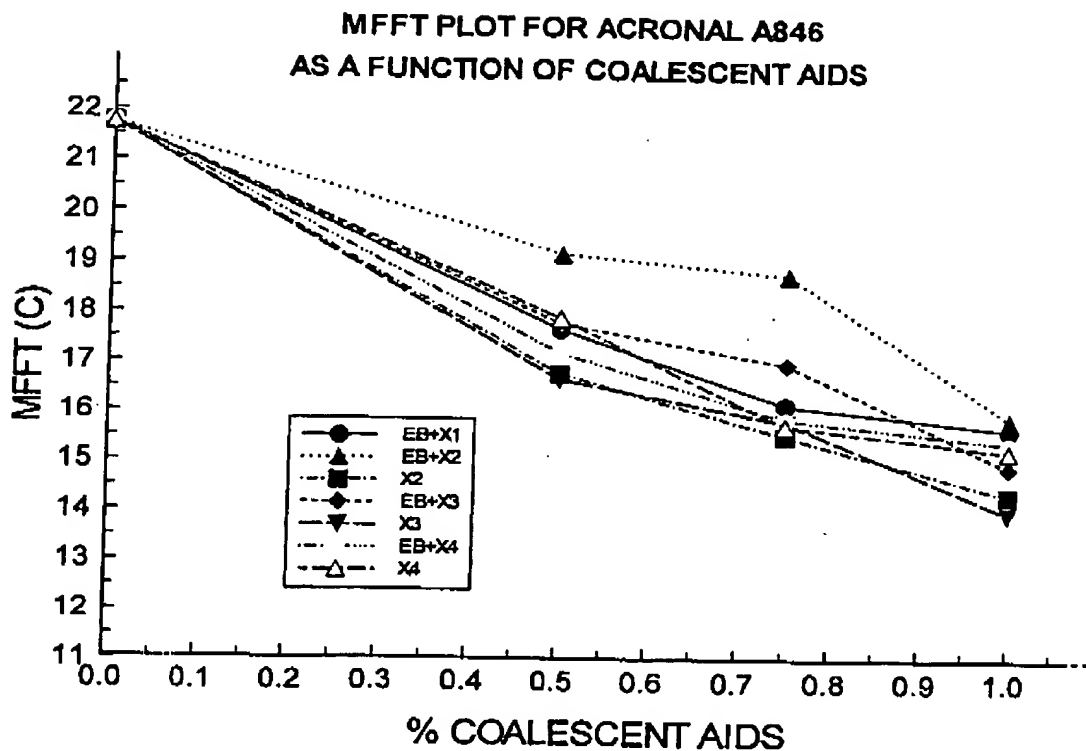
MFFT PLOT FOR ACRONAL A846
AS A FUNCTION OF COALESCENT AIDS

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MFFT PLOT FOR ACRONAL A846
AS A FUNCTION OF COALESCENT AIDS

X1= Ethylene glycol soy oil ester
X2= Propylene glycol soy oil ester
X3= Diethylene glycol soy oil ester
X4= Dipropylene glycol soy oil ester
EB= Ethylene glycol monobutyl ether
EB+X= derivatives and EB mixture 50:50

From the MFFT results of high Tg resin (ACRONAL A846, pure acrylic resin) formulation, it"

with

--The MFFT results of high Tg resin (ACRONAL A846, pure acrylic resin) formulation are shown in FIGs. 8 and 9. It--

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On page 49, lines 14-15, please replace "The plot showed an increasing in coating resistance" with --As FIG. 10 illustrates, the coating resistance increased--.

On page 49, line 15 and page 51, line 3, replace "days" with -- hours --.

On page 50, line 1 - page 51, line 2, please replace:

"

12
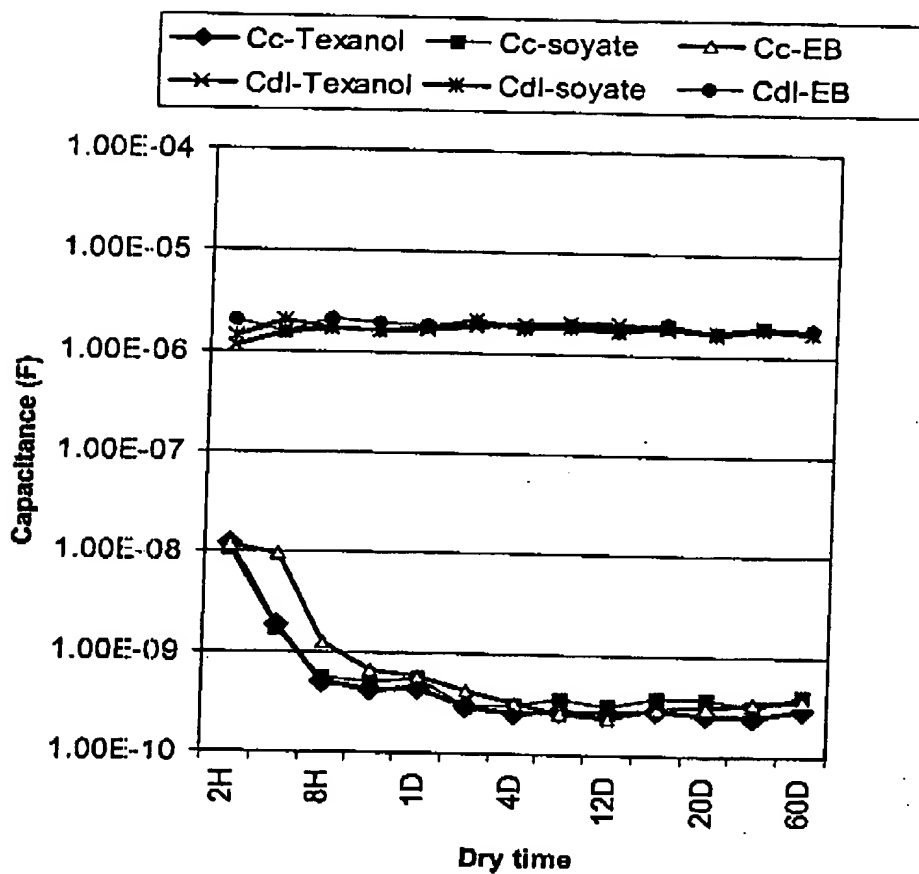
The coating capacitance plot"

with

--The coating capacitance plot (shown in FIG. 11)--.

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On page 51, lines 11-12, please replace "The results of coating capacitance and resistance as a function of dry time of formulation with soybean oil coalescent aid" with --As FIGs. 10 and 11 illustrate, the AC Impedance measurements--.

On page 52, line 8 - page 63, line 1, please replace:
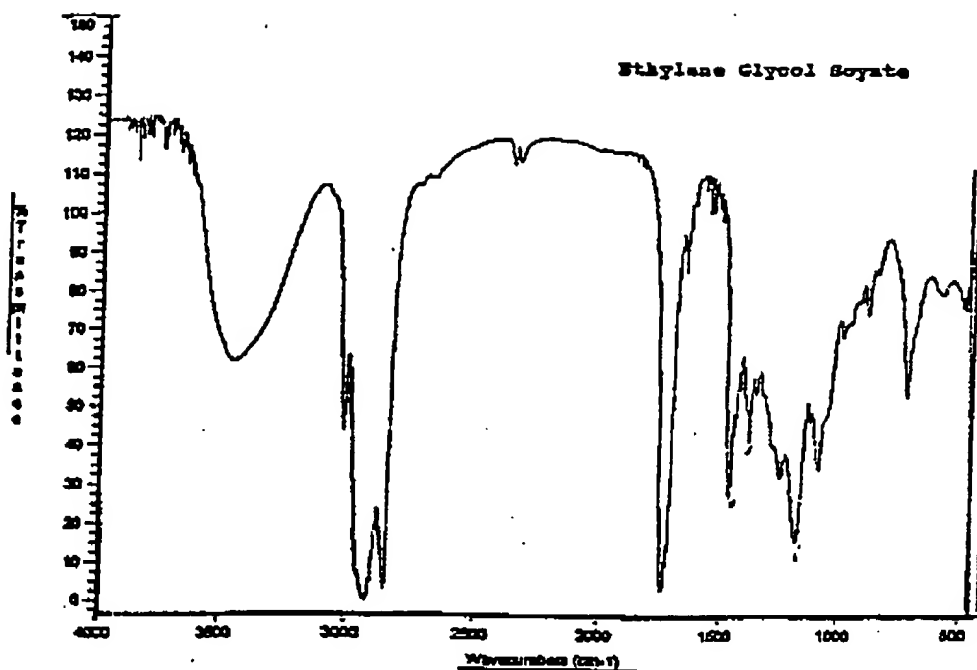
" IR-SPECTRA
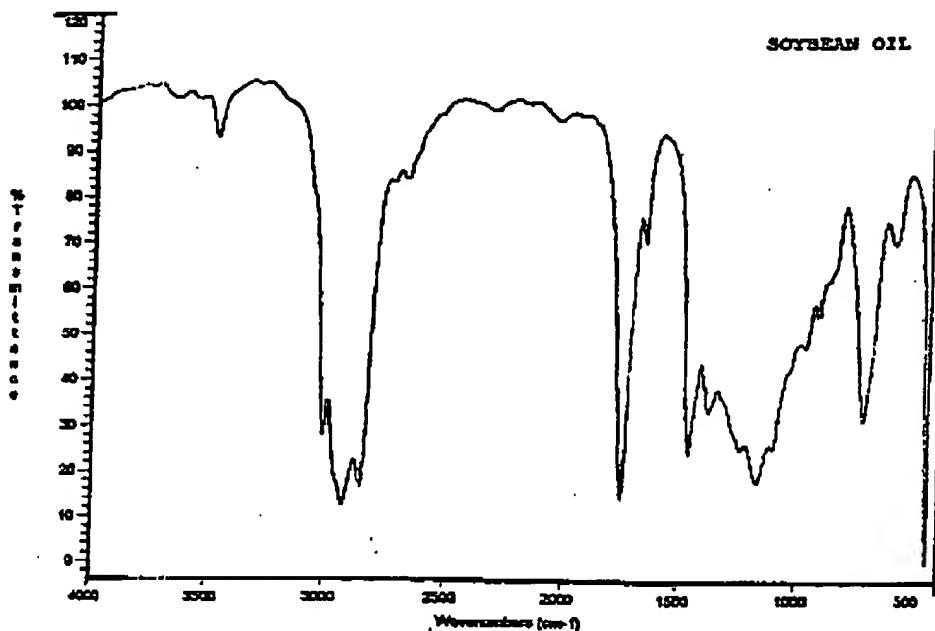
Figure 2.1. IR-spectra of soybean oil

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Figure 2.2. IR-spectra of ethylene glycol soybean oil ester derivative
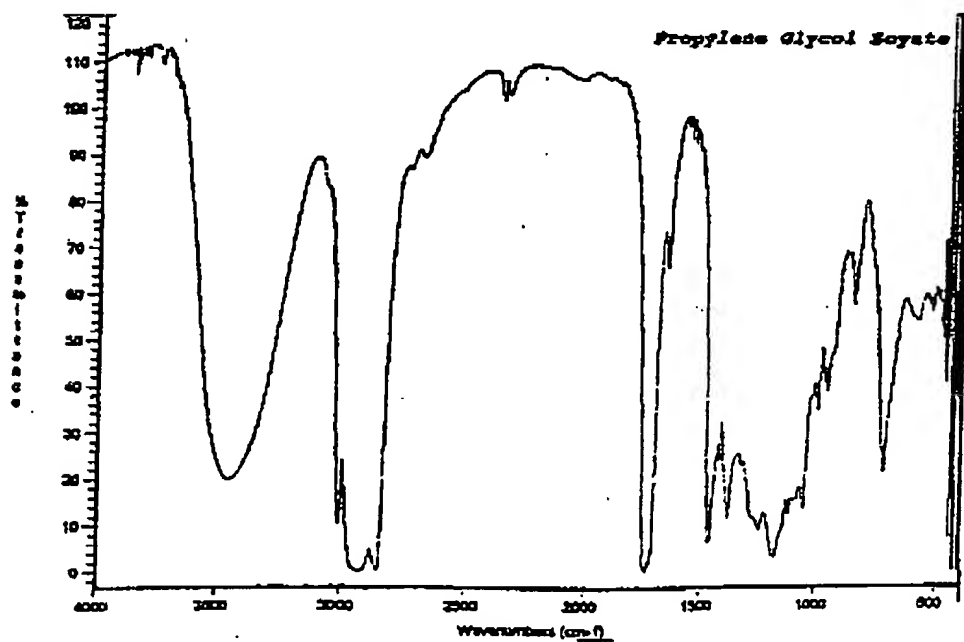
Figure 2.3. IR-spectra of propylene glycol soybean oil ester derivative

15
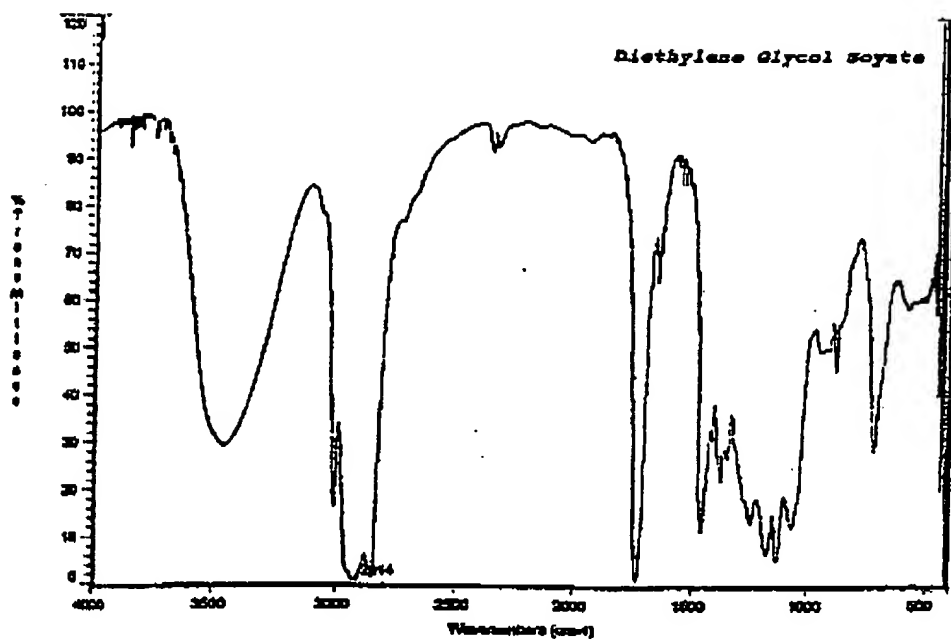
Figure 2.4. IR-spectra of diethylene glycol soybean oil ester derivative

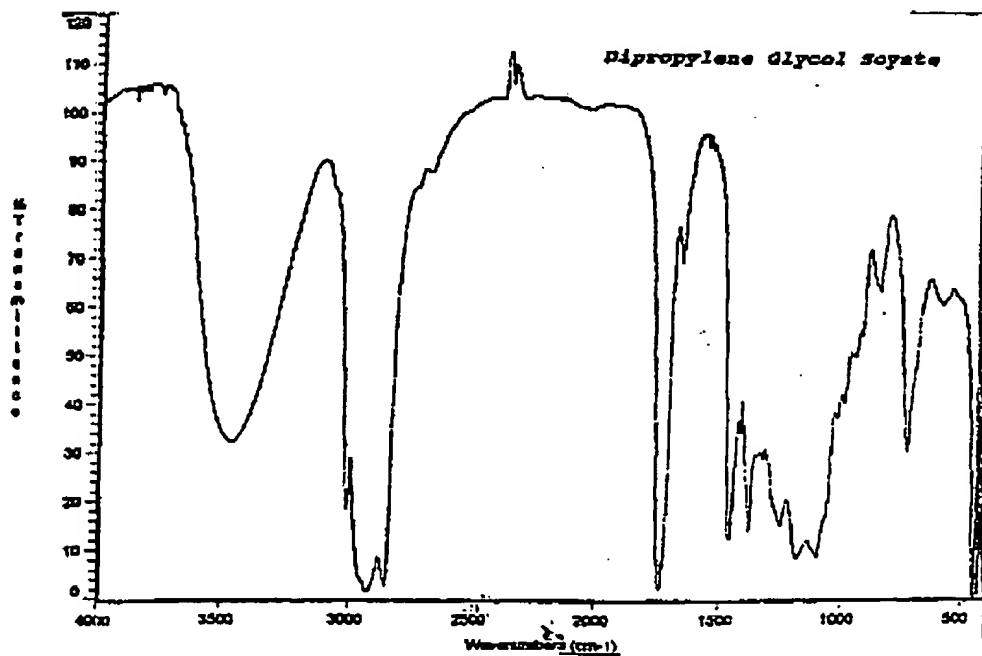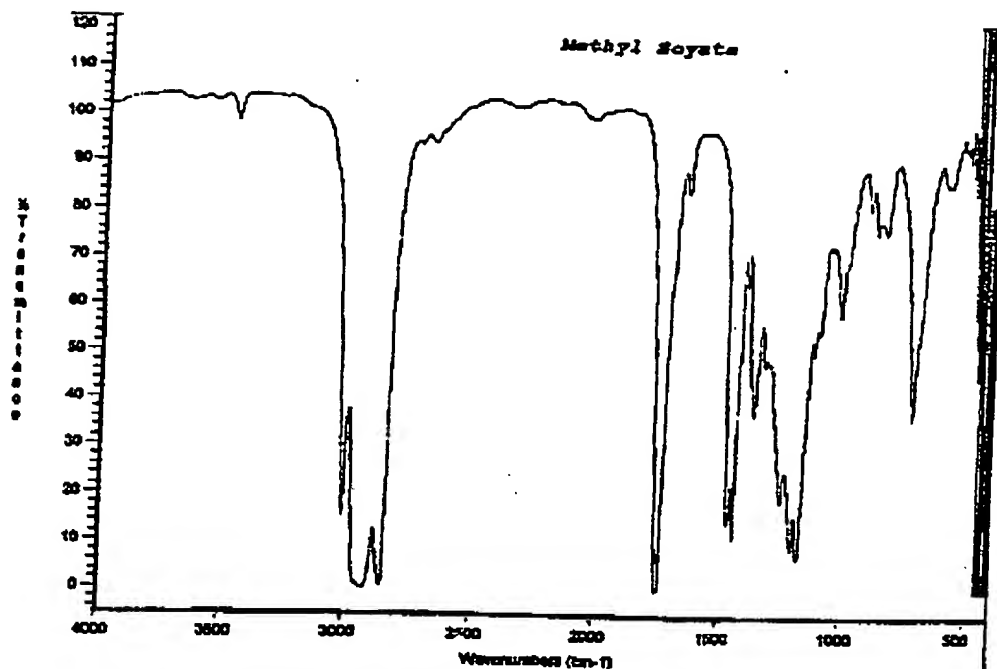Figure 2.5. IR-spectra of dipropylene glycol soybean oil ester derivative

16
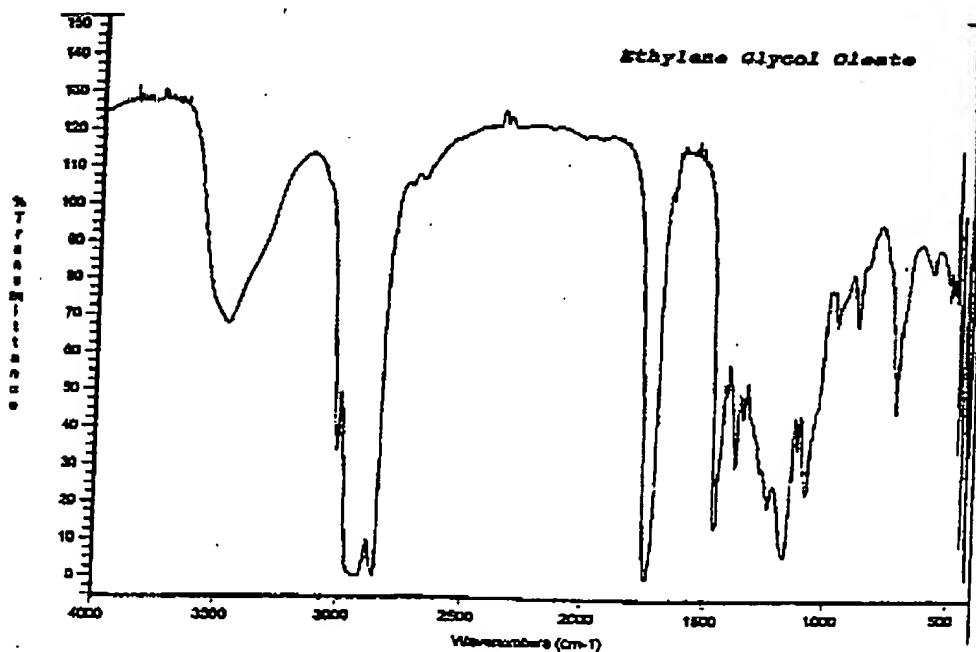
Figure 2.6. IR-spectra of methyl soybean oil ester derivative

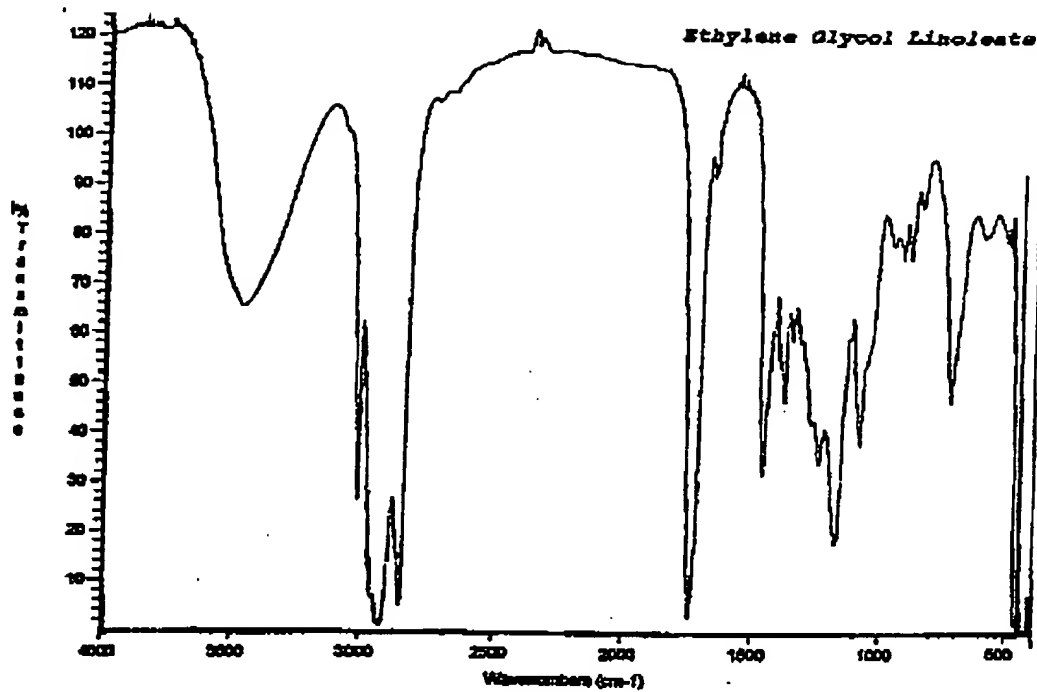Figure 2.7. IR-spectra of ethylene glycol oleate ester derivative

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Figure 2.8. IR-spectra of ethylene glycol linoleate ester derivative
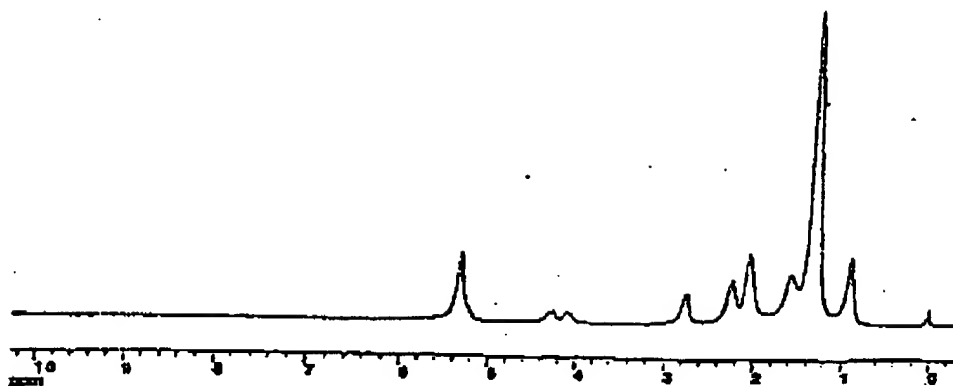
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H1-NMR DATA

SOYBEAN OIL

Figure 3.1. H1-NMR spectra of soybean oil
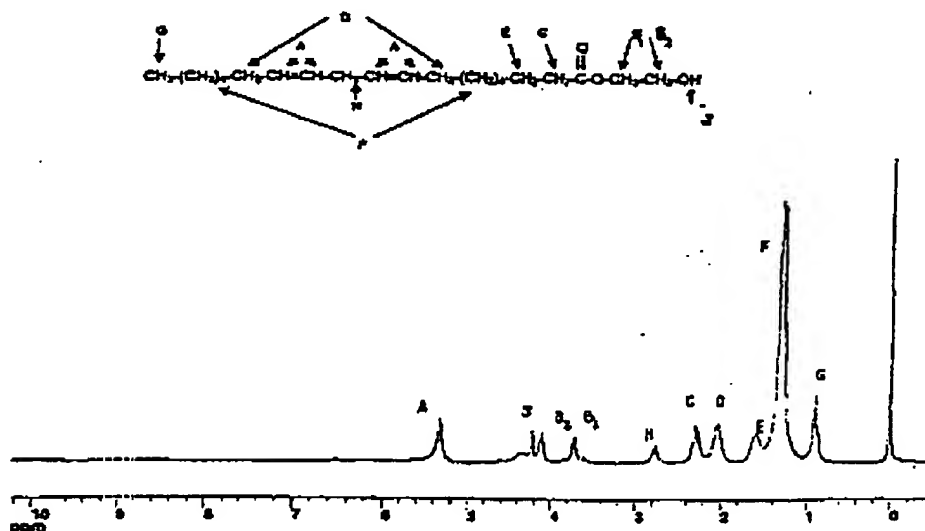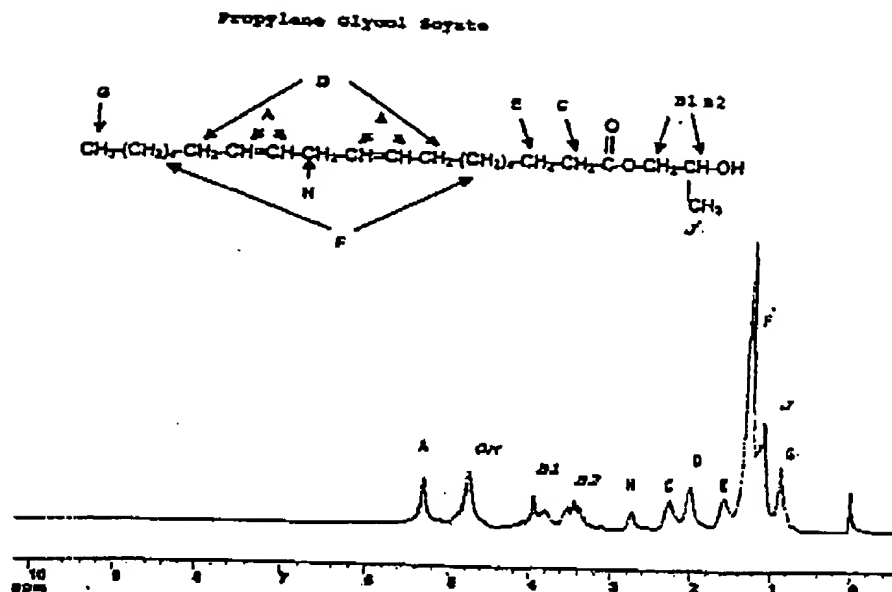
Ethylene Glycol Soyate

Figure 3.2 H1-NMR spectra of ethylene glycol soybean oil ester derivative

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Figure 3.3 H1-NMR spectra of propylene glycol soybean oil ester derivative

Figure 3.4 H1-NMR spectra of diethylene glycol soybean oil ester derivative

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Figure 3.5 H1-NMR spectra of dipropylene glycol soybean oil ester derivative
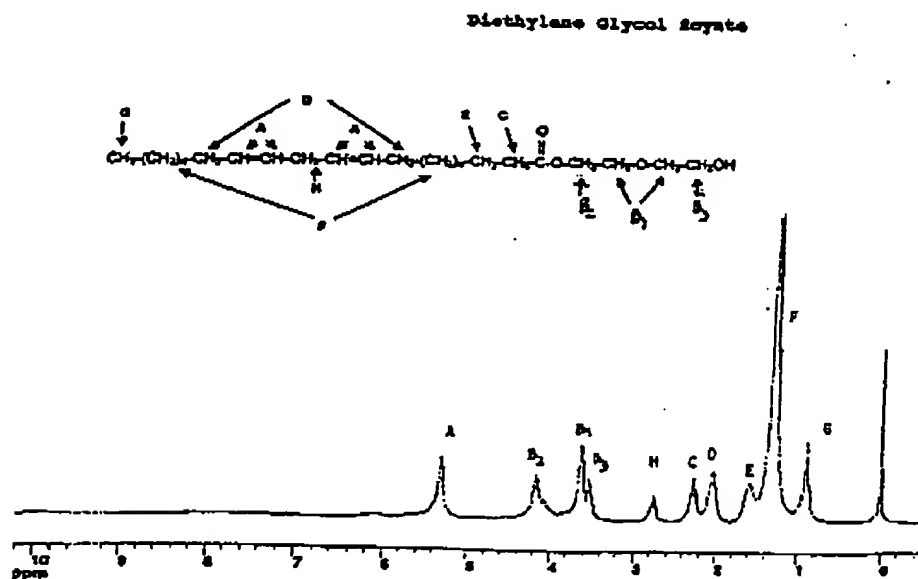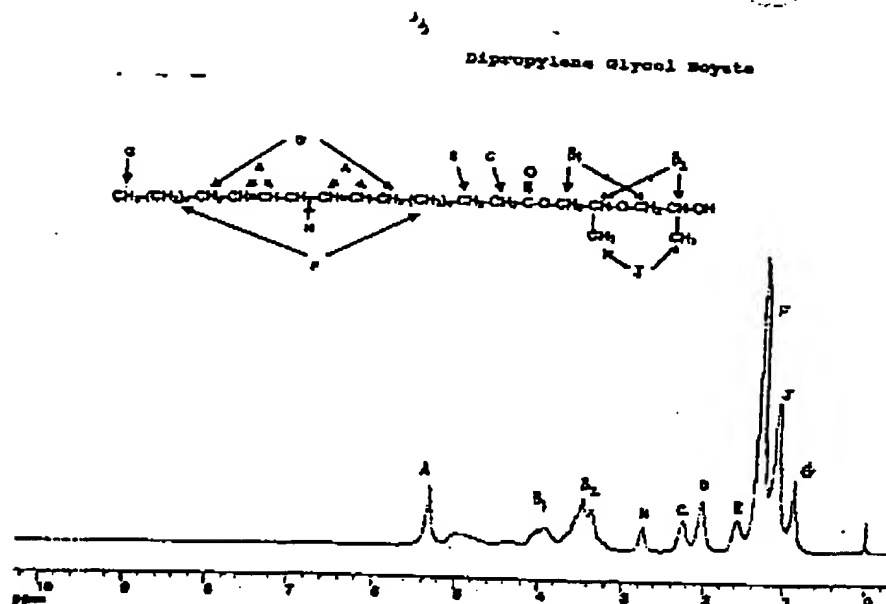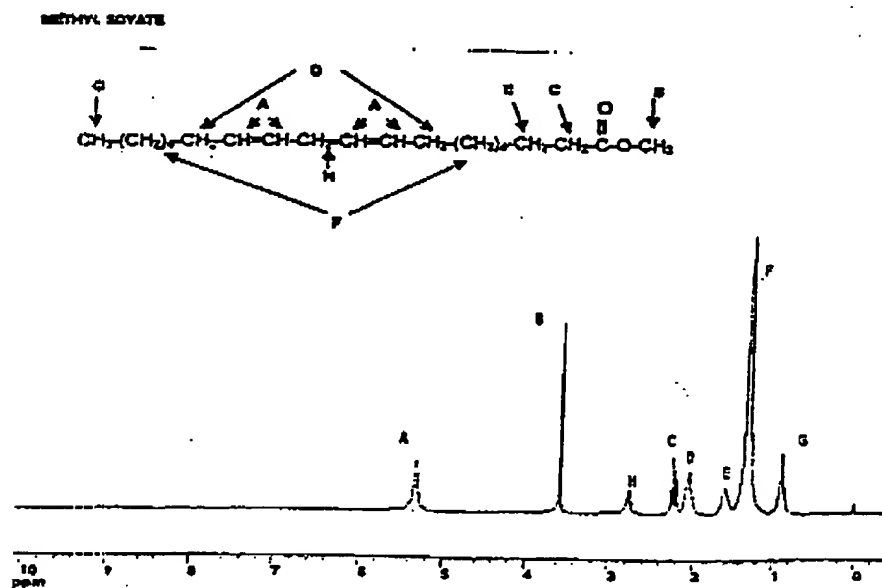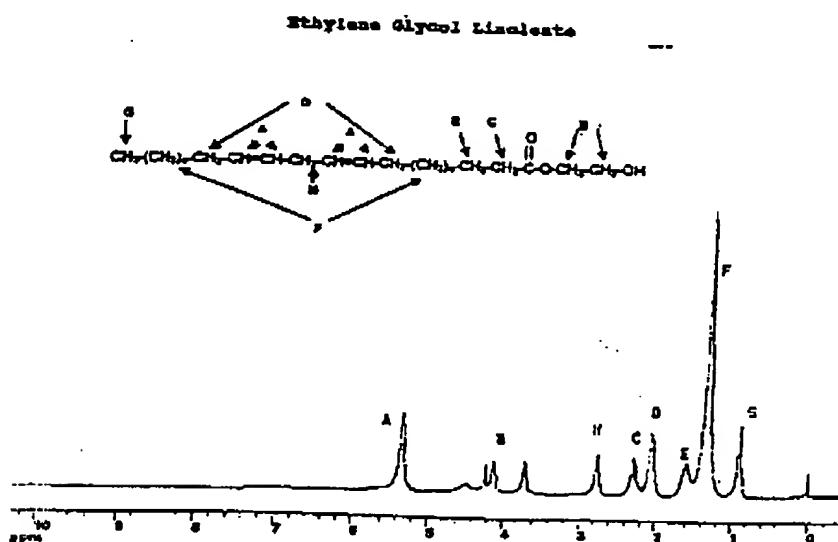

Figure 3.6 H1-NMR spectra of methyl soybean oil ester derivative

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Figure 3.7 H1-NMR spectra of ethylene glycol oleate ester derivative

Figure 3.8 H1-NMR spectra of ethylene glycol linoleate ester derivative

22
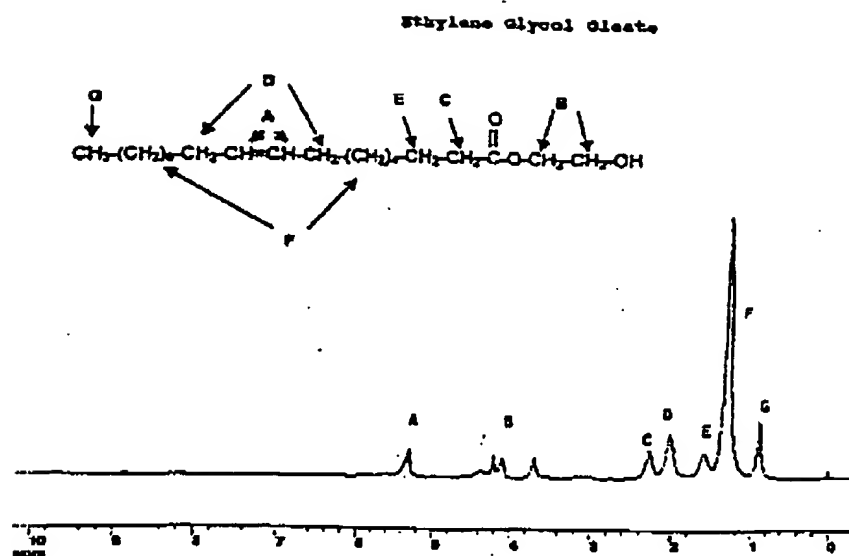
C13-NMR DATA
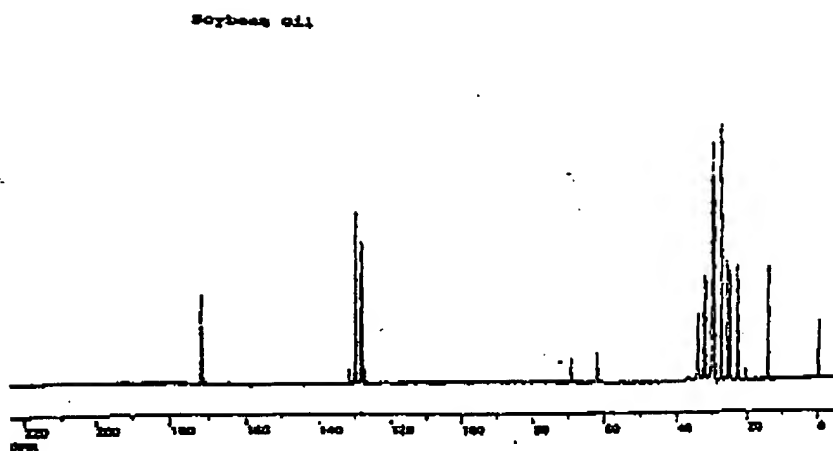
Soybean oil

Figure 3.9. C13-NMR spectra of soybean oil

Ethylene glycol soyate

Figure 3.10. C13-NMR spectra of ethylene glycol soybean oil ester derivative

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PROPYLENE GLYCOL SOYATE

Figure 3.11. C13-NMR spectra of propylene glycol soybean oil ester derivative
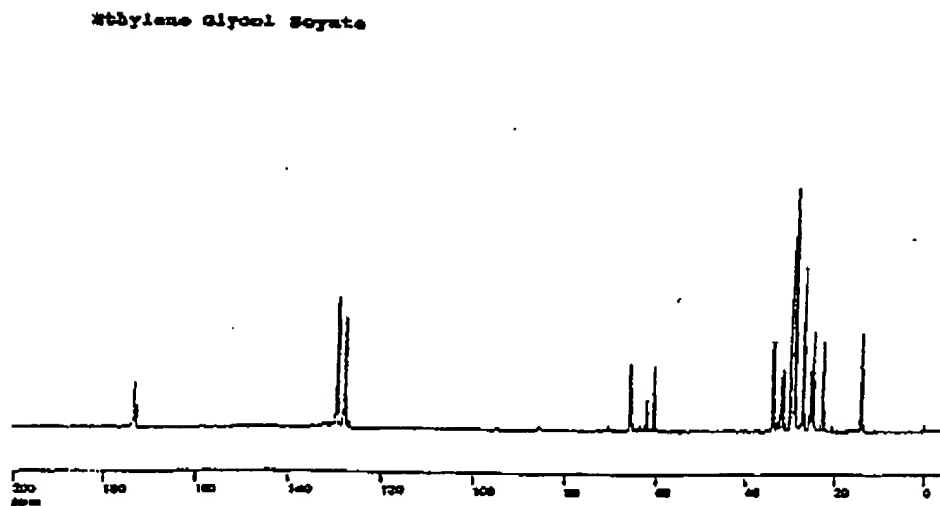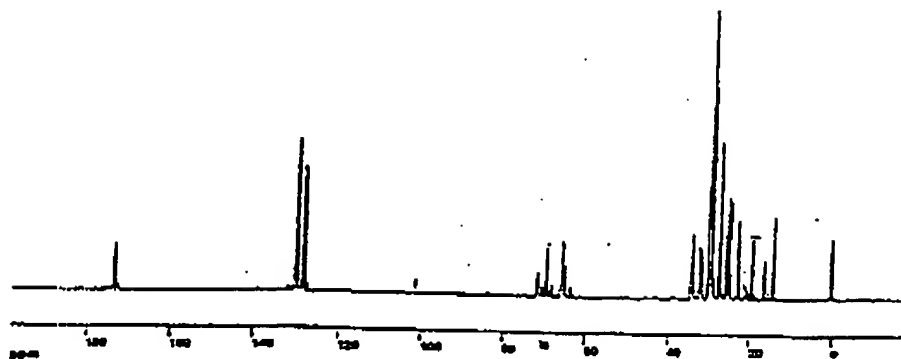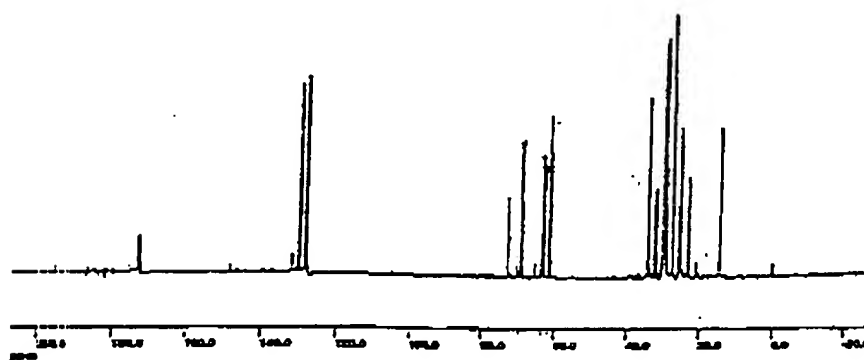
DIETHYLENE GLYCOL SOYATE

Figure 3.12. C13-NMR spectra of diethylene glycol soybean oil ester derivative

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DIPROPYLENE GLYCOL SOYATE
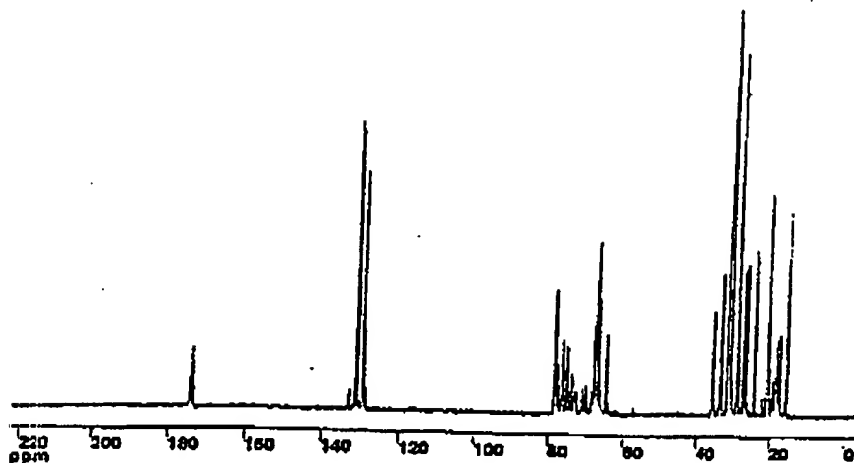
Figure 3.13. C13-NMR spectra of dipropylene glycol soybean oil ester derivative "

with

--IR SPECTRA

Infrared spectra of soybean oil and soybean oil ester derivatives are shown in FIGs. 12-19. FIG. 12 shows the IR spectrum of soybean oil. FIGs. 13-17 show the IR spectra of the soybean oil ester derivatives of ethylene glycol (FIG. 13), propylene glycol (FIG. 14), diethylene glycol (FIG. 15), dipropylene glycol (FIG. 16) and the methyl soybean oil ester derivative (FIG. 17). FIG. 18 shows the IR spectrum of the

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ethylene glycol oleate ester derivative and FIG. 19 shows the
IR spectrum of the ethylene glycol linoleate ester derivative.

H1-NMR DATA

H1-NMR spectra were obtained for soybean oil and soybean
oil ester derivatives. FIG.20 shows the H1-NMR spectrum of
soybean oil. FIGs. 21-25 show the H1-NMR spectra of the
soybean oil ester derivatives of ethylene glycol (FIG. 21),
propylene glycol (FIG. 22), diethylene glycol (FIG. 23),
dipropylene glycol (FIG. 24) and the methyl soybean oil ester
derivative (FIG. 25). The H1-NMR spectrum of the ethylene
glycol oleate ester derivative is shown in FIG. 26, and FIG.
27 shows the H1-NMR spectrum of the ethylene glycol linoleate
ester derivative.

C13-NMR DATA

C13-NMR spectra were obtained for soybean oil and soybean
oil ester derivatives. FIG. 28 shows the C13-NMR spectrum of
soybean oil. FIGs. 29-32 show the C13-NMR spectra of the
soybean oil ester derivatives of ethylene glycol (FIG. 29),
propylene glycol (FIG. 30), diethylene glycol (FIG. 31), and
dipropylene glycol (FIG. 32). --.

On page 64, lines 24 and 25, and page 65, lines 3 and 5,
replace "Texanol" with -- TEXANOL® --.

IN THE CLAIMS:

In claim 10, line 2, replace "ethylene" with --
diethylene--.

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